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NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
NEWS	6	OCT 10	PCTFULL: Two new display fields added
NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS EXPRESS			DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

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FULL ESTIMATED COST

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FILE 'LIFESCI' ENTERED AT 11:42:15 ON 30 JAN 2004
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=> s signal (2a) amplification
L1 5653 SIGNAL (2A) AMPLIFICATION

=> s l1 and electrical or electromagnetic or magnetic
L2 1504822 L1 AND ELECTRICAL OR ELECTROMAGNETIC OR MAGNETIC

=> s l1 and l2
L3 299 L1 AND L2

=> s l3 and ligand-receptor
L4 0 L3 AND LIGAND-RECEPTOR

=> s l3 and hybridization
L5 27 L3 AND HYBRIDIZATION

=> dup rem l5
PROCESSING COMPLETED FOR L5
L6 17 DUP REM L5 (10 DUPLICATES REMOVED)

=> d l6 1-17

L6 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:610590 CAPLUS
DN 139:160836
TI Protein and cDNA sequences for human IWU-1 protein and therapeutic use
thereof
IN Wu, J. H. David; Omasa, Takeshi; Chen, Yi-Guang; Mantalaris, Athanassios
PA University of Rochester, USA
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003064603	A2	20030807	WO 2003-US2323	20030127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				

PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG

US 2003228587 A1 20031211 US 2003-352272 20030127
PRAI US 2002-351933P P 20020125

L6 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:118094 CAPLUS

DN 138:162717

TI Method for detecting at a solid support of complexing or
hybridization between at least two base molecules based on
signal amplification at the support

IN Garnier, Francis; Mandrand, Bernard

PA Biomerieux S.A., Fr.

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003012410	A1	20030213	WO 2002-FR2781	20020801
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	FR 2828284	A1	20030207	FR 2001-10302	20010801
	FR 2828284	B1	20031031		
PRAI	FR 2001-10302	A	20010801		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:1007839 CAPLUS

DN 140:54464

TI **Hybridization signal amplification** method
(HSAM) nanostructures for targeted diagnostic and therapeutic uses

IN Zhang, David Y.; Zhang, Wandu

PA USA

SO U.S. Pat. Appl. Publ., 22 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003236205	A1	20031225	US 2002-176515	20020621
	WO 2004000278	A1	20031231	WO 2003-US19721	20030620
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,			

CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG

PRAI US 2002-176515 A 20020621

L6 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:717247 CAPLUS

DN 139:210376

TI Analyte-detection using **signal amplification** via
polymerization and application to immunoassays and nucleic acid
hybridization

IN Hanke, Hans-Christian; Martin, Alfred

PA Infineon Technologies AG, Germany

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1343012	A1	20030910	EP 2003-4841	20030305
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10210224	A1	20030925	DE 2002-10210224	20020308

PRAI DE 2002-10210224 A 20020308

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:110572 CAPLUS

TI "Electroactive beads" for ultrasensitive DNA detection

AU Wang, Joseph; Polsky, Ronen; Merkoci, Arben; Turner, Kathryn L.

CS Dep. Chem. Biochem., New Mexico State Univ., Las Cruces, NM, 88003, USA

SO Langmuir (2003), 19(4), 989-991

CODEN: LANGD5; ISSN: 0743-7463

PB American Chemical Society

DT Journal

LA English

L6 ANSWER 6 OF 17 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

AN 2003300368 EMBASE

TI Amplifying the **electrical hybridization** signals of DNA
array by multilayer assembly of Au nanoparticle probes.

AU Li J.; Xue M.; Wang H.; Cheng L.; Gao L.; Lu Z.; Chan M.

CS J. Li, Dept. of Elec./Electron. Engineering, Hong Kong Univ. of
Sci./Technology, Clear Water Bay, Kowloon, Hong Kong

SO Analyst, (1 Jul 2003) 128/7 (917-923).

Refs: 25

ISSN: 0003-2654 CODEN: ANALAO

CY United Kingdom

DT Journal; Article

FS 029 Clinical Biochemistry

LA English

SL English

L6 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:970747 CAPLUS

DN 139:128570

TI Electrochemical detection of DNA **hybridization** based on
DNA-templated assembly of silver cluster

AU Wang, Joseph; Rincon, Oscar; Polsky, Ronen; Dominguez, Elena

CS Department of Chemistry and Biochemistry, New Mexico State University, Las
Cruces, NM, 88003, USA

SO Electrochemistry Communications (2003), 5(1), 83-86
CODEN: ECCMF9; ISSN: 1388-2481
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:185371 CAPLUS
DN 136:242904
TI High-throughput system, method and apparatus for use in screening for
transgenic organisms and targeted mutagenesis by microarray
hybridization
IN Hodge, Timothy A.
PA USA
SO PCT Int. Appl., 126 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020842	A1	20020314	WO 2001-US27404	20010904
	WO 2002020842	C1	20020906		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2001088689	A5	20020322	AU 2001-88689	20010904
	EP 1322784	A1	20030702	EP 2001-968441	20010904
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRAI	US 2000-230371P	P	20000906		
	WO 2001-US27404	W	20010904		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 17 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN DUPLICATE 1
AN 2002113116 EMBASE
TI Amplified label-free **electrical** detection of DNA
hybridization.
AU Wang J.; Kawde A.-N.
CS J. Wang, Department of Chemistry, New Mexico State University, Las Cruces,
NM 88003, United States. joewang@nmu.edu
SO Analyst, (2002) 127/3 (383-386).
Refs: 12
ISSN: 0003-2654 CODEN: ANALAO
CY United Kingdom
DT Journal; Article
FS 029 Clinical Biochemistry
LA English
SL English

L6 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:435290 CAPLUS
DN 135:16344
TI Method and device for the handling of samples and reagents

IN Malmquist, Mats
 PA Alphahelix AB, Swed.
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001042487	A2	20010614	WO 2000-SE2448	20001206
	WO 2001042487	A3	20011115		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 2001022421	A5	20010618	AU 2001-22421	20001206
	EP 1235905	A2	20020904	EP 2000-986128	20001206
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2003516156	T2	20030513	JP 2001-544359	20001206
PRAI	SE 1999-4539	A	19991210		
	WO 2000-SE2448	W	20001206		

L6 ANSWER 11 OF 17 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
 on STN DUPLICATE 2

AN 2001422904 EMBASE
 TI Metal nanoparticle-based electrochemical stripping potentiometric detection of DNA **hybridization**.
 AU Wang J.; Xu D.; Kawde A.-N.; Polsky R.
 CS J. Wang, Department of Chemistry, New Mexico State University, Las Cruces, NM 88003, United States
 SO Analytical Chemistry, (15 Nov 2001) 73/22 (5576-5581).
 Refs: 30
 ISSN: 0003-2700 CODEN: ANCHAM
 CY United States
 DT Journal; Article
 FS 029 Clinical Biochemistry
 LA English
 SL English

L6 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:751021 CAPLUS
 DN 137:16136
 TI Sandwich-based **signal amplification** (SSA) and **hybridization** methods for diagnosis of viruses
 AU Anthony, James G.; Linske-O'Connell, Lisa; Lorincz, Attila T.
 CS Res. and Develop., Digene Corp., Silver Spring, MD, 20904, USA
 SO Clinical Virology Manual (3rd Edition) (2000), 169-181. Editor(s): Specter, Steven; Hodinka, Richard L.; Young, Stephen A. Publisher: ASM Press, Herndon, Va.
 CODEN: 69BWWS
 DT Conference; General Review
 LA English
 RE.CNT 75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:587758 CAPLUS
 DN 136:289379

TI Electrochemical detection of DNA **hybridization**
 AU Takenaka, Shigeori
 CS Graduate School of Engineering, Kyushu University, Japan
 SO DNA Chippu Oyo Gijutsu (2000), 76-87. Editor(s): Matsunaga, Tadashi.
 Publisher: Shi Emu Shi, Tokyo, Japan.
 CODEN: 69BRM3
 DT Conference; General Review
 LA Japanese

L6 ANSWER 14 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 3
 AN 1999:267171 BIOSIS
 DN PREV199900267171
 TI HPV in situ **hybridization** with catalyzed **signal**
amplification and polymerase chain reaction in establishing
 cerebellar metastasis of a cervical carcinoma.
 AU Huang, Chao-Cheng; Kashima, Matthew L.; Chen, Haiyan; Shih, Ie-Ming;
 Kurman, Robert J.; Wu, T.-C. [Reprint author]
 CS Department of Pathology, Johns Hopkins Hospital, 720 Rutland Avenue, Ross
 Bldg. Room 644, Baltimore, MD, 21205, USA
 SO Human Pathology, (May, 1999) Vol. 30, No. 5, pp. 587-591. print.
 CODEN: HPCQA4. ISSN: 0046-8177.
 DT Article
 LA English
 ED Entered STN: 15 Jul 1999
 Last Updated on STN: 15 Jul 1999

L6 ANSWER 15 OF 17 MEDLINE on STN
 AN 2002312452 MEDLINE
 DN 22048858 PubMed ID: 12054127
 TI Silent somatotroph adenoma, detected by catalyzed **signal**
amplification and non-radioisotopic in situ **hybridization**
 .
 AU Matsuno A; Sanno N; Tahara S; Teramoto A; Osamura R Y; Wada H; Murakami M;
 Tanaka H; Nagashima T
 CS Department of Neurosurgery, Teikyo University Ichihara Hospital, Chiba,
 Japan.
 SO ENDOCRINE JOURNAL, (1999 Mar) 46 Suppl S81-4.
 Journal code: 9313485. ISSN: 0918-8959.
 CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200206
 ED Entered STN: 20020611
 Last Updated on STN: 20020629
 Entered Medline: 20020628

L6 ANSWER 16 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 4
 AN 1997:385952 BIOSIS
 DN PREV199799685155
 TI Dendritic nucleic acid structures.
 AU Nilsen, Thor W. [Reprint author]; Grayzel, Joseph; Prensky, Wolf
 CS Polyprobe Inc., Bala Cynwyd, PA 19004, USA
 SO Journal of Theoretical Biology, (1997) Vol. 187, No. 2, pp. 273-284.
 CODEN: JTBIAP. ISSN: 0022-5193.
 DT Article
 LA English
 ED Entered STN: 10 Sep 1997
 Last Updated on STN: 10 Sep 1997

L6 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:102609 CAPLUS

DN 124:137803
 TI Genome nucleic acid **amplification** and electric **signal**
 analysis for genotyping and use in genetic mapping or disease diagnosis
 IN Perlin, Mark W.
 PA USA
 SO PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9535542	A1	19951228	WO 1995-US8540	19950614
	W: CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5580728	A	19961203	US 1994-261169	19940617
	EP 714537	A1	19960605	EP 1995-926200	19950614
	R: DE, FR, GB, IT, NL				
	US 6054268	A	20000425	US 1996-734717	19961021
PRAI	US 1994-261169		19940617		
	WO 1995-US8540		19950614		

=> s l3 and ligand (2a) receptor (1a) complex
 L7 0 L3 AND LIGAND (2A) RECEPTOR (1A) COMPLEX

=> s l3 and ligand (2a) receptor
 L8 0 L3 AND LIGAND (2A) RECEPTOR

=> s l3 and binding
 L9 30 L3 AND BINDING

=> s l9 and ligand
 L10 2 L9 AND LIGAND

=> d l10 1-2

L10 ANSWER 1 OF 2 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
 on STN
 AN 90027856 EMBASE
 DN 1990027856
 TI Cellular and molecular mechanisms of chemical synaptic transmission.
 AU Millhorn D.E.; Bayliss D.A.; Erickson J.T.; Gallman E.A.; Szymeczek C.L.;
 Czyzyk-Krzeska M.; Dean J.B.
 CS Department of Physiology, University of North Carolina, Chapel Hill, NC
 27599, United States
 SO American Journal of Physiology - Lung Cellular and Molecular Physiology,
 (1989) 257/6 (1/3) (L289-L310).
 ISSN: 0002-9513 CODEN: APLPE7
 CY United States
 DT Journal; General Review
 FS 002 Physiology
 008 Neurology and Neurosurgery
 029 Clinical Biochemistry
 LA English
 SL English

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:1007839 CAPLUS
 DN 140:54464
 TI Hybridization **signal amplification** method (HSAM)
 nanostructures for targeted diagnostic and therapeutic uses
 IN Zhang, David Y.; Zhang, Wandi
 PA USA

SO U.S. Pat. Appl. Publ., 22 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003236205	A1	20031225	US 2002-176515	20020621
	WO 2004000278	A1	20031231	WO 2003-US19721	20030620
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2002-176515	A	20020621		



Entrez	PubMed	Nucleotide	Protein	Genome	Structure	PMC	Journals	Bo		
Search	PubMed	▼	for					Go	Clear	
		Limits	Preview/Index	History	Clipboard	Details				
Display	Abstract	▼	Show:	20	▼	Sort	▼	Send to	Text	▼

☐ 1: J Cell Biochem. 1993 Apr;51(4):381-6.

[Related Articles, Links](#)

Entrez PubMed

Effects of electromagnetic field exposure on gene transcription.

Phillips JL.

PubMed Services

Pettis Memorial Veterans Administration Medical Center, Loma Linda, California 92357.

Related Resources

Exposure of whole animals, isolated tissues, and cells to electromagnetic fields of various characteristics has resulted in a substantial literature detailing a wide range of effects at the morphological, physiological, biochemical, and molecular levels. In recent years, considerable effort has been devoted to defining a mechanism by which electromagnetic fields can couple to biological systems and generate this plethora of effects. As a consequence, there has been a growing interest in electromagnetic field-induced alterations in gene expression. Key studies are discussed which indicate that exposure of several cell types to electromagnetic fields that differ in waveform, amplitude, and frequency induced general changes in gene transcription. Moreover, exposure of T-lymphoblastoid cells to a 60 Hz sinusoidal magnetic field altered the transcription of genes encoding c-fos, c-jun, c-myc, and protein kinase C. Future studies in this area should focus on independent replication of key studies and identification of which events in the signal transduction pathways leading to gene transcription are altered by electromagnetic field exposure.

Publication Types:

- Review
- Review, Tutorial

PMID: 8496241 [PubMed - indexed for MEDLINE]

Display	Abstract	▼	Show:	20	▼	Sort	▼	Send to	Text	▼
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